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| Speech Title | Dispensing, Enabling High Throughput Metallization for SHJ Solar Cells |
| Abstract/ Brief Introduction of the Speech | <p>Along with further efficiency increases and a reduction of material consumption, the achievement of higher production throughput rates is a major goal of metallization lines these days. Parallel dispensing offers substantial improvements regarding all three aspects and further requires only limited investment costs to improve existing metallization lines based on screen printing technology. The ability to apply commercial available screen printing Ag-pastes further reduces the risk of unwanted cross impacts along the PV value chain and ensures robustness and long lifetimes of manufactured solar modules.</p> <p>Fraunhofer ISE's dispensing technology is on the way to commercialization. Core feature is its 6" parallel print head allowing for intermittent operation with speeds up 300mm/s with commercial available low temperature Ag pastes applied on SHJ solar cells. This study gives an overview of current printing results and a perspective to future applications.</p> |